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L1 and cach\$3

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<u>L18</u>	L1 and cach\$3	12	<u>L18</u>
<u>L17</u>	L13 same (reservation)	1	<u>L17</u>
<u>L16</u>	L13 and (airline or flight)	20	<u>L16</u>
<u>L15</u>	L13 and l10	0	<u>L15</u>
<u>L14</u>	L13 and l1	0	<u>L14</u>
<u>L13</u>	cach\$3 same (recent or updated or up-to-date or current) same (stale or obsolete or outdated or old)	765	<u>L13</u>
<u>L12</u>	L11 not l7	29	<u>L12</u>
<u>L11</u>	l10 same (availab\$7 or free or vacan\$3)	47	<u>L11</u>
<u>L10</u>	airline same (seat\$3 or reservation) same (current or up-to-date or updated)	133	<u>L10</u>
<u>L9</u>	L7 not l5	15	<u>L9</u>
<u>L8</u>	L7 not l6	30	<u>L8</u>
<u>L7</u>	L1 same (up-to-date or current\$2 or recent\$2)	31	<u>L7</u>
<u>L6</u>	5897620[uref]	8	<u>L6</u>
<u>L5</u>	L2 same (up-to-date or current\$2 or recent\$2)	16	<u>L5</u>
<u>L4</u>	L2 same (up-to-date or current\$2 or recent\$2)	16	<u>L4</u>
<u>L3</u>	L1 same cach\$3	0	<u>L3</u>
<u>L2</u>	airline with seat with (availab\$7 or free or vacan\$3)	75	<u>L2</u>
<u>L1</u>	airline same seat same (availab\$7 or free or vacan\$3)	182	<u>L1</u>

END OF SEARCH HISTORY

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L5: Entry 4 of 16

File: USPT

Jul 17, 2001

US-PAT-NO: 6263315

DOCUMENT-IDENTIFIER: US 6263315 B1

TITLE: Revenue management system and method

DATE-ISSUED: July 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Talluri; Kalyan	Millwood	NJ		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Pricing Research Corporation	Millwood	NJ			02

APPL-NO: 9/ 184234 [PALM]

DATE FILED: November 2, 1998

INT-CL: [7] G06 F 17/60

US-CL-ISSUED: 705/8; 705/6, 705/5, 705/10

US-CL-CURRENT: 705/8; 705/10, 705/5, 705/6

FIELD-OF-SEARCH: 705/28, 705/6, 705/8, 705/5, 705/10, 340/5, 340/6, 340/8, 340/10, 340/20, 340/26, 340/28, 340/825.28, 703/6, 707/1, 709/100

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>2542890</u>	February 1951	Basu et al.	
<input type="checkbox"/>	<u>2883106</u>	April 1959	Cornwell et al.	
<input type="checkbox"/>	<u>4862357</u>	August 1989	Ahlstrom et al.	
<input type="checkbox"/>	<u>5255184</u>	October 1993	Hornick et al.	
<input type="checkbox"/>	<u>5270921</u>	December 1993	Hornick	
<input type="checkbox"/>	<u>5404291</u>	April 1995	Kerr et al.	
<input type="checkbox"/>	<u>5652867</u>	July 1997	Barlow et al.	
<input type="checkbox"/>	<u>5897620</u>	April 1999	Walker et al.	
<input type="checkbox"/>	<u>5918209</u>	June 1999	Campbell et al.	
<input type="checkbox"/>	<u>6897620</u>	April 1999	Walker et al.	

ATTY-AGENT-FIRM: Jones, Tullar & Cooper PC

ABSTRACT:

A revenue management software system supports decisions to accept or deny requests for resource capacity (seats, rooms, volume/weight, air time, etc.) using control logic that accesses multidimensional lookup tables of price values for each resource (flight leg, hotel day, etc.). Each dimension of each lookup table corresponds to a variable that affects the value for the resource. As an example where the resource is airline seating capacity for a given flight itinerary, a two-dimensional threshold value table is employed for each flight leg in the itinerary where the first dimension specifies the current time slot and the other dimension the current number of reservations accepted (reservation level) for the flight leg. A request for a seat on the flight is accepted if and only if its net revenue exceeds or equals the sum of the current table values (i.e. the table entries corresponding to the current time and current reservation level) for each requested flight leg.

20 Claims, 5 Drawing figures

WEST☐ **Generate Collection** **Print**

L5: Entry 7 of 16

File: USPT

Oct 17, 2000

US-PAT-NO: 6134534

DOCUMENT-IDENTIFIER: US 6134534 A

TITLE: Conditional purchase offer management system for cruises

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Jay S.	Ridgefield	CT		
Sparico; Thomas M.	Riverside	CT		
Case; T. Scott	Darien	CT		
Schneier; Bruce	Minneapolis	MN		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
priceline.com Incorporated	Stamford	CT			02

APPL-NO: 8/ 923618 [PALM]
DATE FILED: September 4, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of U.S. patent application Ser. No. 08/889,319, filed Jul. 8, 1997, which is a continuation-in-part of U.S. patent application Ser. No. 08/707,660, filed Sep. 4, 1996 now U.S. Pat. No. 5,794,207, each incorporated by reference herein. The present invention is related to the following United States Patent Applications filed contemporaneously herewith: "Conditional Purchase Offer Management System for Packages," U.S. patent application Ser. No. 08/923,683 (Attorney Docket No. WD2-97-065); "Conditional Purchase Offer Management System for Telephone Calls," U.S. patent application Ser. No. 08/923,317 (Attorney Docket No. WD2-97-028); "Conditional Purchase Offer Management System for Event Tickets," U.S. patent application Ser. No. 08/923,530 (Attorney Docket No. WD2-96-081); and "Conditional Purchase Offer and Third-Party Input Management System," U.S. patent application Ser. No. 08/923,524 (Attorney Docket No. WD2-97-067), each assigned to the assignee of the present invention and incorporated by reference herein.

INT-CL: [7] G06 F 15/20US-CL-ISSUED: 705/26; 705/5, 705/37
US-CL-CURRENT: 705/26; 705/37, 705/5

FIELD-OF-SEARCH: 705/26-27, 705/5, 705/13, 705/15, 705/37, 705/35, 295/226, 295/228, 295/236, 295/237, 295/239, 340/825.3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected**Search ALL**

Carlsen, Clifford, "From Airline Tickets to Human Organs, the Electronic Markets Are Booming" San Francisco Business Times, Aug. 14, 1989 at p. 17.
"Public May Submit Bids To Get Bargains Rates", Wall Street Journal, Section 2: p. 1, Column 1; Aug. 1, 1989.
American Airlines Internet Silent Auction, selected pages downloaded from www.americanair.com.
Apollo Host Computer, selected pages downloaded from www.appollo.com.
"Auctioning unsold airline tickets." (<http://www.newciv.org/GIB/BOV-409.HTMI>), at p. 1.
Cathay Pacific: CyberTraveler Auction #3 --Official Rules, selected pages downloaded from www.cathaypacific.com.
CMS Online: About Collector's Super Mall downloaded from www.csmonline.com.
Sabre Decision Technologies, selected pages downloaded from www.sabre.com.
PhoneMiser: Frequently Asked Questions, downloaded from www.phonemiser.com.
The United Computer Exchange: How It All Works, selected pages downloaded from www.uce.com.
Tired of Shopping For the Best Home Loan?, Mortgage Loan Specialists.
Koepper, Ken, "Room Inventory Auctioning: The Next CRS Generation", Lodging, Jan. 1990 at p. 26, 29-30.

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Caudle; Penny

ATTY-AGENT-FIRM: Morgan & Finnegan, L.L.P. Brandt; Jeffrey L.

ABSTRACT:

A conditional purchase offer (CPO) management system is disclosed for receiving CPOs from one or more customers, such as cruise and airline passengers, and for evaluating the received CPOs against a number of CPO rules defined by a plurality of sellers, such as cruise operators and airlines, to determine whether any seller is willing to accept a given CPO. A CPO is a binding offer containing one or more conditions submitted by a customer for purchase of an item, such as airline travel, at a customer-defined price. A CPO rule is a set of restrictions defined by a given seller, such as a cruise operator or an airline, to define a combination of restrictions for which the seller is willing to accept a predefined price. The CPO rules may be securely stored by one or more servers. The CPO management system permits a seller to correct for forecasting errors, if necessary, or other competitive forces which have produced excess capacity, by providing inventory for sale to CPO customers. If a CPO is accepted by more than one seller, the CPO management system executes a post-sell multi-bind process to permit each accepting seller to directly market to the customer and post-sell their product. Thus, the customer selects for himself which seller acceptance to utilize, based on materials furnished by each seller. The CPO management system may optionally also provide a CPO which specifies preferred sellers to the excluded sellers who may make counteroffers to the customer, in an attempt to obtain the business, before one of the specified sellers accepts the CPO.

12 Claims, 34 Drawing figures

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L5: Entry 8 of 16

File: USPT

Aug 29, 2000

US-PAT-NO: 6112185

DOCUMENT-IDENTIFIER: US 6112185 A

TITLE: Automated service upgrade offer acceptance system

DATE-ISSUED: August 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Jay S.	Ridgefield	CT		
Jindal; Sanjay K.	Wilton	CT		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Walker Digital, LLC	Stamford	CT			02

APPL-NO: 8/ 885570 [PALM]

DATE FILED: June 30, 1997

INT-CL: [7] G06 F 19/00

US-CL-ISSUED: 705/5; 705/6

US-CL-CURRENT: 705/5; 705/6

FIELD-OF-SEARCH: 705/5, 705/6, 705/13, 705/15, 340/825.28, 340/825.29

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4752876</u>	June 1988	Couch et al.	705/5
<input type="checkbox"/>	<u>4845625</u>	July 1989	Stannard	
<input type="checkbox"/>	<u>5237499</u>	August 1993	Garback	
<input type="checkbox"/>	<u>5253166</u>	October 1993	Dettlebach et al.	705/5
<input type="checkbox"/>	<u>5255184</u>	October 1993	Hornick et al.	705/6
<input type="checkbox"/>	<u>5285383</u>	February 1994	Lindsey et al.	
<input type="checkbox"/>	<u>5311425</u>	May 1994	Inada	705/6
<input type="checkbox"/>	<u>5404291</u>	April 1995	Kerr et al.	705/5
<input type="checkbox"/>	<u>5732398</u>	March 1998	Tagawa	705/5
<input type="checkbox"/>	<u>5797126</u>	August 1998	Helbling et al.	705/5

OTHER PUBLICATIONS

D'Ambrosio, Richard "Keep Alert For Ways To Upgrade At Discount" Business and Travel News n 202, 26 Apr. 1991.

WebFlyer FAQ Webpage (<http://www.webflyer.com/@faq/upgrade.htm#upgradel> Dec.1998.

Carol Smith, "LAX; Getting Out; The Art of the Upgrade", Los Angeles Times, Nov. 15, 1995 at p. 14.

"TravelBids" (<http://www.travelbids.com>), download date; Mar. 31, 1997.

"Cathay Pacific CyberTraveler Auctions" (<http://www.cathay-usa.com/auction>), download date: Apr. 4, 1997.

"American Airlines' Silent AAuction" (<http://www2.amrcorp.com/auction/rules.html>), download date: Apr. 7, 1998 .

ART-UNIT: 275

PRIMARY-EXAMINER: Stamber; Eric W.

ASSISTANT-EXAMINER: Caudle; Penny

ATTY-AGENT-FIRM: Vogel; Peter J. Alderucci; Dean

ABSTRACT:

An automated service upgrade offer acceptance system is provided for receiving (i) reservations for a selected category of assigned services, such as seating, and (ii) offers for upgraded services, such as an upgrade of an initially selected category of seating to a preferred seating category, from confirmed customers. The automated service upgrade acceptance system permits customers to submit offers for a number of upgraded services or upgrade offer items, including offers for an upgrade of an initial category of seating to a different seating category, including premium seats within a given category of seating, as well as other premium services, such as priority for special meals or drinks, priority for receipt of luggage upon deplaning, and discount companion tickets. The automated service upgrade acceptance system allows a customer to place a binding offer for an upgraded offer item, should the item become available. Offers for upgraded services can be accepted by the automated service upgrade acceptance system at any time during a seller-defined offer acceptance period, from the time of making a reservation, up to a predefined expiration period. The automated service upgrade acceptance system processes the received offers for upgraded services, at one or more intervals until an offer acceptance period expires, to determine whether to accept or reject each offer for an upgraded service and thereafter notify the customers of any revised seating assignments. The received offers for each different upgrade offer item are preferably processed in a predefined sequence, such that offers for the highest categories of seating are processed first. The automated service upgrade acceptance system can enhance the value of offers in accordance with seller-defined criteria for preferred customers, such as frequent flyers, or in accordance with a promotional offer.

84 Claims, 11 Drawing figures

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L12: Entry 10 of 29

File: USPT

Jul 4, 2000

US-PAT-NO: 6085164

DOCUMENT-IDENTIFIER: US 6085164 A

TITLE: Apparatus and method of allocating flight inventory resources based on the current market value

DATE-ISSUED: July 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Barry Craig	Flower Mound	TX		
Balakrishnan; Vinod	Colleyville	TX		
Green; Richard Wenman Pennefather	Dallas	TX		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sabre Inc.	Fort Worth	TX			02

APPL-NO: 8/ 810468 [PALM]

DATE FILED: March 4, 1997

PARENT-CASE:

This application is a continuation of application Ser. No. 08/688,554 filed Jul. 30, 1996, now abandoned, which is a continuation of application Ser. No. 08/120,800 filed Sep. 15, 1993 abandoned Mar. 27, 1997.

INT-CL: [7] G06 F 17/60

US-CL-ISSUED: 705/5; 705/6, 705/10

US-CL-CURRENT: 705/5; 705/10, 705/6

FIELD-OF-SEARCH: 705/3, 705/5, 705/6, 705/8, 705/10, 340/825.28, 340/825.29, 709/200, 709/216, 709/217, 709/218, 709/227, 709/219, 707/2, 707/3, 707/4, 707/5, 707/9, 707/10

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4775936</u>	October 1988	Jung	
<input type="checkbox"/>	<u>5255184</u>	October 1993	Hornick et al.	
<input type="checkbox"/>	<u>5262942</u>	November 1993	Earle	
<input type="checkbox"/>	<u>5270921</u>	December 1993	Hornick	
<input type="checkbox"/>	<u>5369570</u>	November 1994	Parad	

OTHER PUBLICATIONS

Belobaba, Application of a Probabilistic Decision Model to Airline Seat Inventory Control, Operations Research, vol. 37, No. 2, pp. 183-197, Apr. 1989.

Feldman, Joan, "What's a revenue manager to do?", Air Transport World, vol. 30, No. 8, pp. 78-79, Aug. 1993.

Anonymous, "Control Data's Optix helps airlines to maximize discount yields. (software package)", Travel Weekly, vol. 46, p. 27, Aug. 31, 1987.

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ASSISTANT-EXAMINER: Kalinowski; Alexander

ATTY-AGENT-FIRM: Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

ABSTRACT:

The present invention relates to an inventory control method and architecture that maximizes revenues derived from the sale of a given inventory resource to a customer. More particularly, the present invention uses a continuous nested execution environment that allows a determination of a minimum acceptable price by continuously computing an optimal sale price based on current demand and supply and expected cancellations. The method described accesses a centrally located information repository and retrieves an inventory resource type and value allowing requests below the minimum acceptable price to be rejected, while requests above the minimum acceptable price can be accepted thus allowing the resource provider to maximize incoming revenues from the sale of its inventory of reservations.

22 Claims, 8 Drawing figures

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L9: Entry 2 of 15

File: USPT

Sep 7, 1999

US-PAT-NO: 5948040

DOCUMENT-IDENTIFIER: US 5948040 A

TITLE: Travel reservation information and planning system

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
DeLorme; David M.	Yarmouth	ME		
Gray; Keith A.	Dresden	ME		
Ferguson; T. Angus	Portland	ME		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
DeLorme Publishing Co.	Yarmouth	ME			02

APPL-NO: 8/ 797471 [PALM]

DATE FILED: February 6, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This patent application is a continuation-in-part (CIP) of the David M. DeLorme et al. U.S. patent application Ser. No. 08/661,600 filed Jun. 11, 1996, for COMPUTER AIDED ROUTING AND POSITIONING SYSTEM, now U.S. Pat. No. 5,802,492 which is a CIP of the David M. DeLorme et al. U.S. patent application Ser. No. 08/381,214 filed Jan. 31, 1995 for COMPUTER AIDED ROUTING SYSTEM, now U.S. Pat. No. 5,559,707, issued Sep. 24, 1996, which is a CIP of the David M. DeLorme et al. U.S. patent application Ser. No. 08/265,327 filed Jun. 24, 1994 for COMPUTER AIDED MAP LOCATION SYSTEM now abandoned. This patent application is also a CIP of the Keith A. Gray U.S. patent application Ser. No. 08/521,828 filed on Aug. 31, 1995, for COMPUTERIZED ADDRESS LOCATION AND COMMUNICATION SYSTEM now abandoned. All of the cross-referenced applications have a common assignee who is the assignee of the present application. The contents of these related patent applications are incorporated herein by reference.

INT-CL: [6] G06 F 19/00, G01 C 21/00

US-CL-ISSUED: 701/201; 701/208, 701/211, 340/990, 705/5

US-CL-CURRENT: 701/201; 340/990, 701/208, 701/211, 705/5

FIELD-OF-SEARCH: 701/201, 701/202, 701/207, 701/208, 701/209, 701/211, 701/212, 701/213, 705/5, 705/6, 340/988, 340/989, 340/990, 340/995

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4359631</u>	November 1982	Lockwood et al.	360/12
<input type="checkbox"/>	<u>4862357</u>	August 1989	Ahlstrom et al.	705/6
<input type="checkbox"/>	<u>4926336</u>	May 1990	Yamada	364/444
<input type="checkbox"/>	<u>5021953</u>	June 1991	Webber et al.	705/6
<input type="checkbox"/>	<u>5172321</u>	December 1992	Ghaem et al.	701/202
<input type="checkbox"/>	<u>5191523</u>	March 1993	Whitesage	705/6
<input type="checkbox"/>	<u>5208756</u>	May 1993	Song	364/449
<input type="checkbox"/>	<u>5231584</u>	July 1993	Nimura et al.	364/444
<input type="checkbox"/>	<u>5237499</u>	August 1993	Garback	705/5
<input type="checkbox"/>	<u>5243528</u>	September 1993	Lefebvre	701/211
<input type="checkbox"/>	<u>5253166</u>	October 1993	Dettebach et al.	705/5
<input type="checkbox"/>	<u>5272638</u>	December 1993	Martin et al.	701/202
<input type="checkbox"/>	<u>5331546</u>	July 1994	Webber et al.	705/6
<input type="checkbox"/>	<u>5353034</u>	October 1994	Sato et al.	340/988
<input type="checkbox"/>	<u>5359527</u>	October 1994	Takanabe et al.	364/449
<input type="checkbox"/>	<u>5369588</u>	November 1994	Hayami et al.	701/209
<input type="checkbox"/>	<u>5422809</u>	June 1995	Griffin et al.	705/5
<input type="checkbox"/>	<u>5444618</u>	August 1995	Seki et al.	364/420
<input type="checkbox"/>	<u>5519619</u>	May 1996	Seda	701/201
<input type="checkbox"/>	<u>5537324</u>	July 1996	Nimura et al.	364/449
<input type="checkbox"/>	<u>5587911</u>	December 1996	Asano et al.	364/444.2
<input type="checkbox"/>	<u>5724520</u>	March 1998	Goheen	705/5

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Makulowich, John, "Traveling by Virtual Reservation," Washington Technology, Jan. 23, 1997, p. 42.
 Knecht, Bruce, G., "Microsoft Puts Newspapers in Highanxiety.com," The Wall Street Journal, Jul. 15, 1996, pp. B1, B10.
 "InforTravel Expands Service," Business Geographics, vol. 4, No. 6, Jun., 1996, p. 13.
 DelRosso, Laura, "Firm Customizes Internet Res Link," Travel Weekly, vol. 55, No. 26, Apr. 1, 1996, pp. 43-44, 47.
 "Casto Travel's Resource Library," www.casto.com.
 "Sunnyside Computing, Inc.," www.itn.net.

ART-UNIT: 361

PRIMARY-EXAMINER: Nguyen; Tan

ATTY-AGENT-FIRM: Atwood; Pierce Caseiro; Chris A.

ABSTRACT:

Computerized travel reservation information and planning system that generates "map ticket" output in various media, for guidance and transactions en route. Such print or electronic documents can include bar or alphanumeric codes for automated recognition and/or access. WHERE?, WHO/WHAT?, WHEN? and HOW? menus enable flexible user inquiries accessing selectable geographic, topical, temporal and transactional data records and relational processing. Sub-menus provide further capabilities: e.g. routing, topical searching; searches of events calendars, almanacs, appointment books, related itinerary

scheduling; trip budgeting issues, plus travel arrangement availabilities or other goods/services offers. Online communications links access updated or supplemental information on places, times, topics and other provider goods/service offers. Online computer-aided routing system enables input of selectable travel origin, destination, and waypoints to compute travel routes, available transportation services, costs, options, and schedules. A point-of-interest database lets users pick types of attractions or accommodations within a user-selected region around routes of travel. Users engage in an iterative planning process, revising or editing travel plans, previewing travelogs of alternate routes, selecting point of interest parameters, comparing times and costs of transportation options, in order to achieve a satisfactory travel plan. The system provides printed or electronic output that may include any one or more of text itinerary, ordered set of travel maps, customized collection of information on points of interest information and a selected array of valid reservation confirmations, tickets and/or discount coupons coded with elements for automated recognition and processing. Mobile users, including GPS-linked users, can access the system via wireless communication units.

80 Claims, 16 Drawing figures

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L12: Entry 21 of 29

File: USPT

Oct 29, 1996

US-PAT-NO: 5570283

DOCUMENT-IDENTIFIER: US 5570283 A

TITLE: Corporate travel controller

DATE-ISSUED: October 29, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shoolery; John R.	Palo Alto	CA		
Pasela; Guy E.	Davis	CA		
De La Torre; Diane L.	San Bruno	CA		
Leung; Kenneth M.	San Jose	CA		
Morris; Kathleen A.	Saratoga	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
TravelNet, Inc.	Santa Clara	CA			02

APPL-NO: 8/ 342348 [PALM]

DATE FILED: November 18, 1994

INT-CL: [6] G06 F 153/02

US-CL-ISSUED: 364/407; 364/401R

US-CL-CURRENT: 705/5; 707/1

FIELD-OF-SEARCH: 364/401-402, 364/403, 364/406, 364/408, 340/825.28, 395/200, 395/650, 395/275, 395/500, 395/600, 395/800, 395/916, 395/934, 379/90, 379/355, 379/356, 370/80.5, 370/80.6

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5237499	August 1993	Garback	364/407

OTHER PUBLICATIONS

"Covia Adds Customization Tools Access Co.", Business Travel News, May 7, 1997 p. 12.
Dialog File 16, Acc. No. 725978 2.

"Sun Will Shine Thru Windows, (Sun Microsystems: Automates business travel management process", Business Travel News Jul. 6, 1992 p. A4, Dialog file 16, Acc No. 73932882.
Belitsos, Byron, "MIS pilots the air wars (includes related article on Covia Corp's distributed Apollo reservations system)" Computer & Communications Decisions, V27, N3, p. 36(6); Mar. 1988, Dialog Acc. No. 73573165.

"Netwise RPC Tool: Distributed Applications with Less Pain Netwise: Lanuches RPC

distributing application tool" Network computing Maruch, 1991 p. 16.

"Playing by the Rules: How Zenith Travel is using the new CRS regulations to develop better automation" Travel Agent, Jun. 28, 1993, p. 87, Dialog File 16 Acc. No. 04523256.

"Going Mobile: SABRE's LANLink offers home agents complete flexibility to use office LAN programs" Travel Agent Mar. 7, 1994, p. 60, Dialog File 16 Acc. No. 04971977.

"Working Knowledge: Technology will dictate the continuing evolution of the role of agents and stimulate travel by informed consumers", Travel Agent, Mar. 21, 1994, p. 34; Dialog File 16 Acc. No. 05005272.

"Reservation Legacy (Unix-based reservations systems are discussed)", UNIX News, Jun. 1994, p. 17 Dialog File 16, Acc. No. 05141282.

"Upgrading the System", Travel Agent, Jan. 10, 1994, p. 50. Dialog, File 16, Acc. No. 04883418.

ART-UNIT: 241

PRIMARY-EXAMINER: McElheny, Jr.; Donald E.

ASSISTANT-EXAMINER: Poinvil; Frantzy

ATTY-AGENT-FIRM: Pillsbury Madison & Sutro LLP

ABSTRACT:

A system for controlling travel primarily in a corporate environment that interconnects travelers, travel agents and airline CRSs so that a traveler can communicate with the CRS with a user friendly GUI to obtain schedule information and transfer such to a travel agent, the travel agent can use the selected schedule information for ticketing and to assure the lowest cost while the entire trip information is stored locally for management control. The system includes multiple connects to the CRS to overcome data transfer limitations specific to airline CRSs.

27 Claims, 4 Drawing figures

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L16: Entry 19 of 20

File: USPT

Feb 6, 1996

US-PAT-NO: 5490261

DOCUMENT-IDENTIFIER: US 5490261 A

TITLE: Interlock for controlling processor ownership of pipelined data for a store in cache

DATE-ISSUED: February 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bean; Bradford M.	New Paltz	NY		
Bierce; Anne E.	Poughkeepsie	NY		
Christensen; Neal T.	Wappingers Falls	NY		
Clark; Leo J.	Hopewell Junction	NY		
Comfort; Steven T.	Poughkeepsie	NY		
Jones; Christine C.	Poughkeepsie	NY		
Mak; Pak-Kin	Poughkeepsie	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY				02

APPL-NO: 7/ 680176 [PALM]

DATE FILED: April 3, 1991

INT-CL: [6] G06 F 12/08, G06 F 12/00

US-CL-ISSUED: 395/448; 395/457, 395/462, 395/470, 395/471, 395/472, 395/496, 364/243.45, 364/231.8, 364/246.8, 364/246.5, 364/243.41, 364/DIG.1

US-CL-CURRENT: 711/121; 711/130, 711/135, 711/143, 711/144, 711/145, 711/169

FIELD-OF-SEARCH: 395/425, 395/448, 395/457, 395/462, 395/471, 395/472, 395/496

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4622631</u>	November 1986	Frank et al.	395/800
<input type="checkbox"/>	<u>5265232</u>	November 1993	Gannon et al.	395/425
<input type="checkbox"/>	<u>5276848</u>	January 1994	Gallagher et al.	395/425
<input type="checkbox"/>	<u>5276852</u>	January 1994	Callander et al.	395/425
<input type="checkbox"/>	<u>5317720</u>	May 1994	Stamm et al.	395/425

ART-UNIT: 232

PRIMARY-EXAMINER: Rudolph; Rebecca L.

ASSISTANT-EXAMINER: Bragdon; Reginald G.

ATTY-AGENT-FIRM: Goldman; Bernard M.

ABSTRACT:

Insures data integrity in process ownership indications by providing an ownership interlock on the data units in a pipeline to a store-in type of cache. An ownership interlock prevents any processor ownership change to occur (i.e. exclusive or readonly ownership) for a cache data unit until all outstanding stores have been made in the cache data unit, after which the ownership may be changed. An ownership change may be signalled by a cross-invalidate (XI) signal to a processor. Outstanding stores are received by the pipeline after the stores are completed by a processor, and the outstanding stores output from the pipeline into a store-in cache. A continuous flow of stores is enabled into and out of the pipeline to expedite a change of ownership requested of a data unit in the cache. The continuous flow avoids having to stop a processor from putting stores into the pipeline and avoids forcing all outstanding stores out of the pipeline into the cache before indicating a change of processor ownership.

12 Claims, 8 Drawing figures

WEST

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L18: Entry 11 of 12

File: USPT

Nov 9, 1993

US-PAT-NO: 5261069

DOCUMENT-IDENTIFIER: US 5261069 A

TITLE: Method of maintaining consistency of cached data in a database system

DATE-ISSUED: November 9, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wilkinson; W. Kevin	Sunnyvale	CA		
Neimat; Marie-Anne	Atherton	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Hewlett-Packard Company	Palo Alto	CA			02

APPL-NO: 7/ 566732 [PALM]

DATE FILED: August 13, 1990

INT-CL: [5] G06F 1/00

US-CL-ISSUED: 395/425; 395/600, 364/DIG.2, 364/974, 364/969, 364/969.2, 364/964, 364/964.2

US-CL-CURRENT: 711/145; 707/8

FIELD-OF-SEARCH: 364/2MSFile, 364/9MSFile, 395/425, 395/400, 395/600

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4755930</u>	July 1988	Wilson, Jr. et al.	364/200
<input type="checkbox"/>	<u>4775955</u>	October 1988	Liu	364/900
<input type="checkbox"/>	<u>4897782</u>	January 1990	Bennett et al.	395/600
<input type="checkbox"/>	<u>4965719</u>	October 1990	Shoens et al.	395/650
<input type="checkbox"/>	<u>5029169</u>	July 1991	Smyk	371/19
<input type="checkbox"/>	<u>5055999</u>	October 1991	Frank et al.	364/200
<input type="checkbox"/>	<u>5077658</u>	December 1991	Bendert et al.	395/600
<input type="checkbox"/>	<u>5091846</u>	February 1992	Sachs et al.	395/250
<input type="checkbox"/>	<u>5113514</u>	May 1992	Albonesi et al.	395/425
<input type="checkbox"/>	<u>5140685</u>	August 1992	Sipple et al.	395/425
<input type="checkbox"/>	<u>5161227</u>	November 1992	Dias et al.	395/725

OTHER PUBLICATIONS

"VAXclusters: A Closely-Coupled Distributed System", by Kronenberg, N. P., Levy, H. M., Strecker, W. D.; ACM Transactions on Computer Systems, vol. 4, No. 2, May 1986, pp. 130-146.

"Integrated Concurrency-Coherency Controls for Multisystem Data Sharing", by Dias, D. M., Balakrishna, R. I., Robinson, J. T. and Yu, P. S.; IEEE Transactions on Software Eng., vol. 15, No. 4, Apr. 1989, pp. 437-448.

ART-UNIT: 232

PRIMARY-EXAMINER: Rudolph; Rebecca L.

ABSTRACT:

A method of maintaining the consistency of cached data in a client-server database system. Three new locks--a cache lock, a pending lock and an out-of-date lock--are added to a two-lock concurrency control system. A new long-running envelope transaction holds a cache lock on each object cached by a given client. A working transaction of the client works only with the cached object until commit time. If a second client's working transaction acquires an "X" lock on the object the cache lock is changed to a pending lock; if the transaction thereafter commits the pending lock is changed to an out-of-date lock. If the first client's working transaction thereafter attempts to commit, it waits for a pending lock to change; it aborts if it encounters an out-of-date lock; and otherwise it commits.

17 Claims, 8 Drawing figures